**Somerset County Public Schools**

**Course Syllabus Template**

**Course Title**  6th Grade Science

**Teacher** Mrs. Benner

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| **Narrative Course Description**  The students will use technology and the skills and processes of science in the fields of Geology, Biology, Ecology, Chemistry, and Physics, to explain that matter and energy is conserved during transformations. |

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| **Key Content and Skills**   * To stress the interconnections among the Sciences, and the connections between science, other disciplines, and contribution to ordinary living * To combine content with process skills in an activity oriented program * To develop scientific literacy * To provide practice using the scientific method of inquiry to gather information and to solve problems   Earth Science − Students will explain the chemical and physical interactions of the  environment that occur over time.  Life Science – The students will explain the dynamic nature of living things, their interactions, and the results from the interactions.  Ecology – The students will give reasons supporting the fact that the number of organisms an environment can support depends on the physical conditions and resources available.  Chemistry – Students will explain the composition, structure, and interactions of matter  in order to support the predictability of structure and energy transformations.  Physics – Students will explain the interaction of matter and energy and the energy transformations that occur. |

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| **Enduring Understandings: (**Understandings that are useful throughout the life of the student.)  Energy is neither lost or destroyed, it changes form.  The Earth is dynamic; forces constantly recycle Earth’s materials.  The characteristics of the biosphere is determined by interactions between abiotic and biotic features.  Humans make decisions which positively and negatively affect the environment.  Temperature changes cause changes in the amount of energy in matter which determines predictable physical characteristics of a substance.  Sound and light energy travel in waves in a predictable manner. |

**Course Activities**

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| **Time Frame**  **(Weeks 1 – 3, etc.)** | **Units/Activities of Study** | **Assessments of Learning** |
| 6 | Chemistry | Class/lab work, Chapter/Unit Tests |
| 8 | Physics | Class/lab work, Chapter/Unit Tests/Benchmark |
| 12 | Earth Science | Class/lab work, Chapter/Unit Tests |
| 12 | Environmental Science | Class/lab work, Chapter/Unit Tests/Benchmark |

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| **Expectations for Excellence (**Grading Policy and Practices)  Tests 30%, Classwork 60%, Homework 10%. Extra credit: Journal: 25 points per term. |

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| **Resources and Materials** (textbooks, resources, materials needed by student)  In class: Students need to bring paper and pencils to school. Prentice Hall Science Explorer Materials, United Learning Videostreaming, Internet, hardware/software, and lab materials are provided.  Home: Homework will be given on Mon/Tues and is due Fri. Projects will be announced in a timely manner throughout the school year. |

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| **Process for Home/School Communication:** Planning time: 1:45-2:15. 410.621.0166. e-mail: [pbenner@somerset. k12. md.us](mailto:pbenner@somerset.%20k12.%20md.us). Website: <http://www.somerset.k12.md.us/int/ >. Our class wiki space:< <https://bennerscience.wikispaces.com/> > Notes in student planner. Take home newsletters. |